

Freeze dryer

NEW

-60° down to -90°C, many accessories available



FD-8 with 12 port T-type manifold (not included)

FD-8 -60° down to -90°C

Ideal for:

- wide range from pharmaceuticals, biology, food industry to petrol-chemistry and semiconductor industry, etc.

Features:

- ergonomic design and compact body size for all laboratory tables
- allows automatic or manual process control
- temperature, vacuum and timer can be controlled at automatic mode
- rapid integrated hot gas defrost function for quick next cycle turn-around
- LED indication light in case of suitable temperature and vacuum
- homogeneous temperature distribution across all shelves in dry chamber
- made of stainless steel
- backlight LCD display indicates temperature and vacuum
- CE certified and unique serial number for tracing

Controller:

- digital fuzzy controller with **Jog-Shuttle-switch** (turn + push) and touch button

Model	FD-8
Chamber & max. condenser capacity	chamber: 8 l, max. condenser: 10 l
Sublimation rate	3 l/day
Max. temperature	cold trap: -90°C, condenser: -40°C
Set temperature range	-60°C to -90°C
Pressure range	10 - 0.01 torr
Compressor and defrost type	compressor: 1/2 HP, defrost type: manual
Dimensions (W x D x H) & weight	400 x 530 x 415 mm, condenser: Ø 300 x 150 mm, 55 kg
Packing size & gross weight	560 x 760 x 675 mm, 60 kg
Power supply	1 Phase AC 120V, 60 Hz or AC 230V, 50/60 Hz
Order number 230V	DH.Frd00208
Order number 120V	DH.Frd00108

NEW

Freeze dryer

Accessories



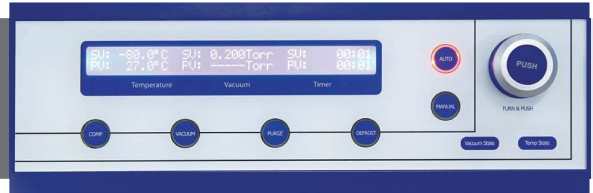
Accessories

Various accessories available such as manifolds, dry chambers or shelves.



Controller

Intuitive touch-button controller (Jog-Dial).
Indication LEDs for temperature and vacuum.



Freezing system

Quick freezing and defrosting function.



made of Duran® tubing



Description	Order number
40ml flask, Ø40/2.3t x h80mm	DH.GL12041
80ml flask, Ø40/2.3t x h120mm	DH.GL12042
200ml flask, Ø65/2.2t x h100mm	DH.GL12043
300ml flask, Ø65/2.2t x h140mm	DH.GL12044
500ml flask, Ø90/2.5t x h125mm	DH.GL12045
700ml flask, Ø90/2.5t x h165mm	DH.GL12046
1000ml flask, Ø90/2.5t x h225mm	DH.GL12047



Description	Order number
Table cart, 2 stages, for FD-8 and pump	DH.Ca1002

Description	Order number
T-type manifold, 12 ports, 3/4" vacuum handle valve, incl. 10x silicone stopper	DH.Frd01034



Description	Order number
Dry chamber, acrylic, 8 ports, 3/4" vacuum handle valve, incl. 10x silicone stopper	DH.Frd02010



Description	Order number
Shelve, 3 stages, stainless steel, for dry chamber DH.Frd02010	DH.Frd02020



Description	Order number
Vacuum handle valve, 3/4", neoprene rubber and PP	DH.Frd03010



Description	Order number
Glass tube adapter, 3/4", Ø19/1.8t x L80mm	DH.GL28091
Glass tube adapter bent-type, 3/4", Ø19/1.8t x L80mm	DH.GL28092
PP tube adapter bent-type, 3/4", Ø19/1.8t x L80mm	DH.Frd04010



Description	Order number
Flask top, silicone, 3/4", for 40/80 ml flasks	DH.Frd05010
Flask top, silicone, 3/4", for 200/300 ml flasks	DH.Frd05020
Flask top, silicone, 3/4", for 500/700/1000 ml flasks	DH.Frd05030

